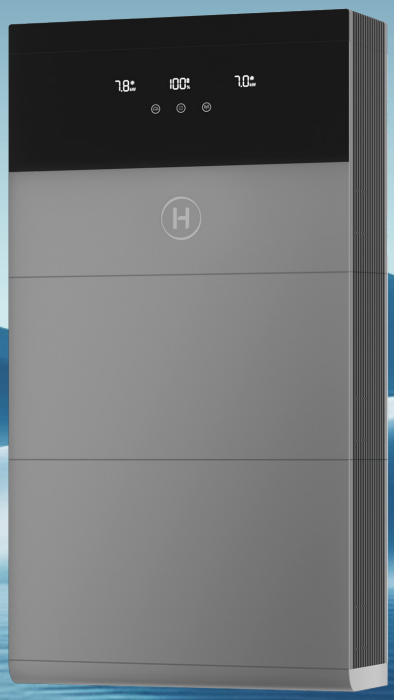
HIONE - THREE-PHASE INVERTER

HiOne-(8-20)T-G3



Features

01 Supports three-phase unbalanced output, ensuring stable operation under complex load conditions

02 Up to 200% DC/AC oversizing to significantly boost power generation efficiency

03 Four independent 20 A MPPTs, perfectly compatible with high-power modules and multi-orientation rooftops

04 Rugged IP66 enclosure design ensures performance in harsh environments

05 Enables up to 150% off-grid peak output, allowing effortless startup of inductive loads

06 Built-in intelligent EMS automatically optimizes energy storage and consumption strategies

Technical Specifications

Model	HiOne-8T-G3	HiOne-10T-G3	HiOne-12T-G3	HiOne-16T-G3	HiOne-20T-G3
Battery					
Battery type	Li-ion				
Battery voltage range (V)	720-950				
Compatible battery model	HiOne-6B-G3, HiOne-8B-G3				
Number of modules	1-8(1)				
PV Input					
Recommended max. PV power (W)	16000	20000	24000	32000	40000
Max. input voltage (V)	1000				
Rated voltage (V)	720				
Start-up voltage (V)	170				
MPPT voltage range (V)	150-950				
Max. input current (A)	20/20/20	20/20/20	20/20/20/20	20/20/20/20	20/20/20/20
Max. short circuit current (A)	30/30/30	30/30/30	30/30/30/30	30/30/30/30	30/30/30/30
MPPT number/Max. input strings number	3/3	3/3	4/4	4/4	4/4
AC Output					
Rated output power (W)	8000	10000	12000	16000	20000
Max. on-grid output apparent power (VA)	8800	11000(2)	13200	17600	22000
Max. output current (A)	13.3	16.7	20.0	26.7	33.3
Max. off-grid output apparent power (VA)(3)	12000 (10s)	15000 (10s)	18000 (10s)	24000 (10s)	30000 (10s)
Grid form	3L/N/PE				
Nominal AC output voltage (V)	380/400				
Nominal grid frequency (Hz)	50/60				
Power factor	>0.99 (0.8 leading-0.8 lagging)				
THDi (@rated output)	<3%				
Efficiency					
Max. efficiency	98.5%				
EU efficiency	98.0%				
Protection					
Anti-islanding protection	Integrated				
PV string input reverse polarity protection	Integrated				
Insulation resistor detection	Integrated				
Residual current monitoring unit	Integrated				
AC overcurrent protection	Integrated				
AC short circuit protection	Integrated				
AC overvoltage and undervoltage protection	Integrated				
Surge protection	DC Type II / AC Type II				
General					
Dimensions (W × H × D [mm])	620 × 360 × 255				
Weight (kg)	31				
Mounting	Wall-mounted / Floor-standing				
Operating temperature (°C)	-30 to +65 (>45, derating)				
Relative humidity	0-95%, no condensation				
Cooling	Natural convection	Natural convection	Intelligent air cooling	Intelligent air cooling	Intelligent air cooling
Topology (Solar / Battery)	Transformerless / High-frequency isolation				
Altitude (m)	≤4000				
Protection degree	IP66				
User interface	LED & App				
Communication	RS485, Bluetooth, Wi-Fi / Ethernet / 4G (optional)				
Warranty	10 Years				
Standard Compliance					
Grid connection standard	IEC 61727, IEC 62116, EN 50549-1&10, NF EN 50549-1&-10, VDE-AR-N 4105, DIN VDE V 0124-100, PN-EN 50549-1, NC RfG, CEI0-21, AS/NZS 4777.2, PEA/MEA, TOR Erzeuger Type A				
Safety / EMC standard	IEC/EN 61000-6-1, IEC/EN 61000-6-3, EN 62920, IEC/EN 62109-1&2				

(1) Up to four modules can be stacked in one battery tower.
(2) For Belgium, the maximum output apparent power is equal to the nominal output apparent power.
(3) Applicable only when the inverter is connected to Hoymiles gateway.

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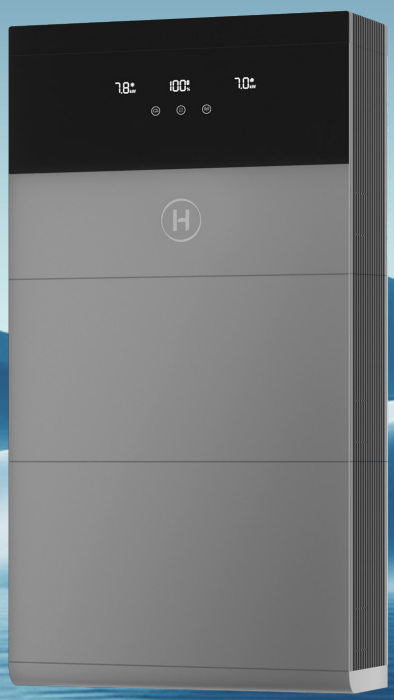
HIONE - BATTERY

HiOne-6B-G3
HiOne-8B-G3



Features

01 Equipped with 314 Ah large-capacity cells for extended cycle life and enduring performance

02 Multi-layer protection mechanisms ensure comprehensive electrical safety

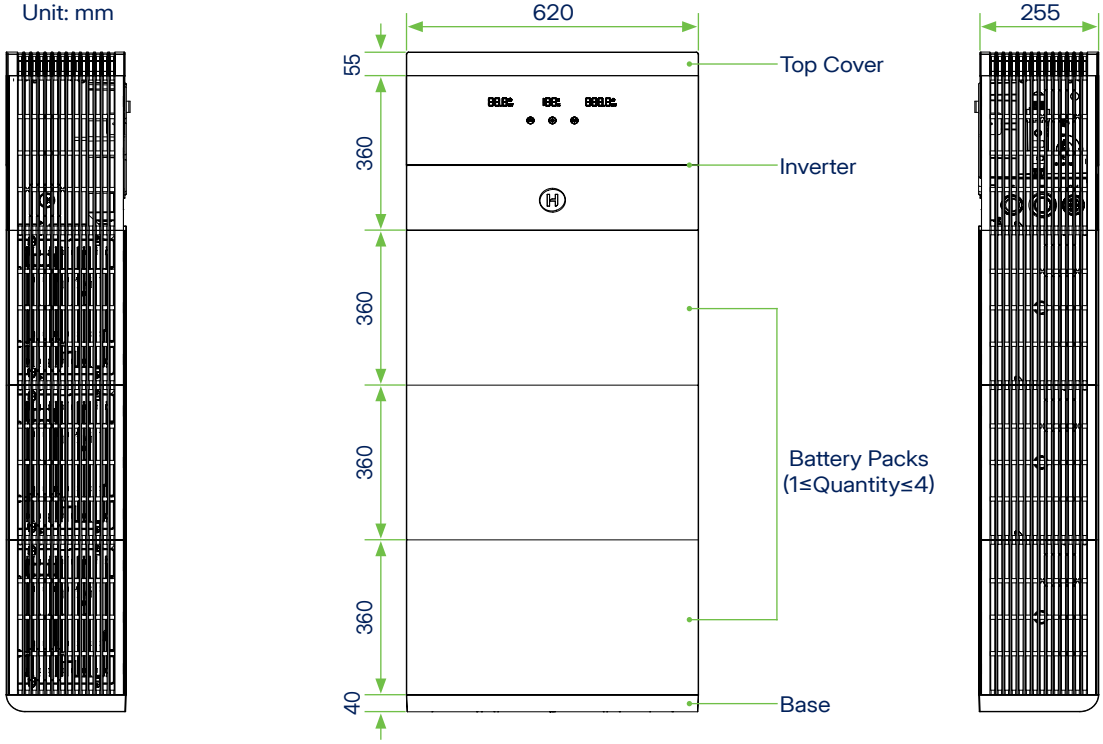
03 Built-in optimizers support mixed use of new and old battery packs, maximizing system scalability

04 Adapts to low temperature with self-heating technology, ensuring performance even in extreme cold

Technical Specifications

Model	HiOne-6B-G3	HiOne-8B-G3
Battery Data		
Battery type	$LiFePO_4$	
Cell capacity (Ah)	314	
Cycle life	8000(1)	
Total energy (kWh)	6	8
Usable energy (kWh)	5.85(2)	7.8(2)
Depth of discharge	100%(3)	
Max. charging/discharging power (kW)	3	4
Peak discharge power (kW)	4.5 (10 s)	6 (10 s)
Max. stackable quantity	4	
Max. parallel quantity	2	
General		
Dimensions (W × H × D [mm])	620 × 360 × 255 (single pack)	
Weight (kg)	55	67
Mounting	Wall-mounting / Floor-standing	
Installation environment	Indoor / Outdoor	
Storage temperature range (°C)	-25 to +60	
Charging/discharging temperature range (°C)	-20 to +55	
Protection degree	IP66	
Cooling	Natural convection	
Altitude (m)	≤4000	
Relative humidity range	5% - 95%	
Compatible inverters	HiOne-(8-20)T-G3, HiOne-(3.6-12)S-G3	
Standard compliance	IEC/EN 60730-1, IEC/EN 61000-6-1&3, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62477	
Warranty	10 Years	

(1) This value is provided by the cell manufacturer and is based on the following conditions: SOH=70%, 0.5 C charge/discharge rate at 25±2°C.
(2) This value is measured at the beginning of life under the following conditions: 100% depth of discharge, 0.2 C charge/discharge rate at 25±2°C.
(3) This value refers to the usable energy capacity of the battery. To keep the battery in good condition, recharge it within 7 days after it has been fully discharged.



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